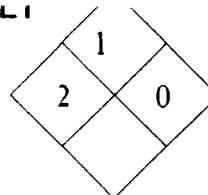


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**SECTION I. GENERAL INFORMATION**

PRODUCT NAME (NUMBER) Energized Rosin Core Solder  
CHEMICAL FAMILY Wire core solder  
D.O.T. HAZARD CLASS Not regulated

**SECTION II. HAZARDOUS INGREDIENTS**

INGREDIENTS	CAS NUMBER	WEIGHT PERCENT	OSHA PEL	ACGIH TLV
Lead } Product contains	7439-92-1	*	0.05 mg/cum	0.05 mg/cum
Tin } one or more of	7440-31-5	*	2.0 mg/cum	2.0 mg/cum
Silver } these metallic	7440-22-4	*	0.01 mg/cum	0.1 mg/cum
Bismuth } elements in	7440-69-9	*	NE	NE
Antimony } varying	7440-36-0	*	0.5 mg/cum	0.5 mg/cum
Indium } percentages.	7440-74-6	*	NE	0.1 mg/cum
Rosin	8050-09-7	1-4	**	**

\*WEIGHT PERCENT: Composition of solder alloys vary widely therefore no weight percent or specific gravity is given. (See product label for composition).

\*\*Sensitizer, reduce exposure as low as possible.

**SECTION III. PHYSICAL DATA**

(PUBLISHED OR ESTIMATED VALUES)

BOILING POINT Deg F.	NA	SPECIFIC GRAVITY	NA
(760 mm Hg)		(H <sub>2</sub> O=1) (@ 77 deg F)	
VAPOR PRESSURE	NA	% VOLATILE BY WEIGHT	NA
(mm Hg at 20 Deg. C.)		EVAPORATION RATE	NA
VAPOR DENSITY (AIR=1)	NA	(BUAC=1)	
SOLUBILITY IN WATER	Insoluble	pH	NA
APPEARANCE AND ODOR	Silver-gray metal wire, odorless, various shapes and sizes.		

**SECTION IV. FIRE AND EXPLOSION HAZARD DATA**

ESTIMATED FLAMMABLE LIMITS (% By Volume in Air) LEL: NA UEL: NA

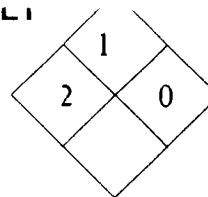
FLASH POINT Deg F. NA

EXTINGUISHING MEDIA NA

SPECIAL FIRE FIGHTING PROCEDURES Use NIOSH approved self-contained breathing apparatus and full protective clothing if involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARD When heated to high temperatures, lead emits highly toxic fumes.

NA - NOT APPLICABLE NE - NOT ESTABLISHED NL - NOT LISTED UN - UNKNOWN

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**Energized Rosin Core Solder****SECTION V.(A) HEALTH HAZARD DATA** (Symptoms/Effects Of Overexposure)

**INHALATION:** Exposure to rosin fume may cause dizziness and headache. May also cause an allergic reaction such throat and respiratory irritation or damage. For overexposure to lead, tin, silver, bismuth, antimony and indium fume at soldering temperatures see Section X.

**INGESTION:** Essentially non-hazardous at room temperature. (NOT likely to occur.)

**SKIN:** Molten core solder will cause burns. Repeated exposure to rosin fume may cause a skin rash.

**EYES:** Molten rosin core flux will cause eye burns. Rosin smoke can cause eye irritation.

**CHRONIC TOXICITY:** See Section X.

**LISTED CARCINOGENS:** None.

**MEDICAL CONDITIONS POSSIBLY AGGRAVATED:** Chemical hypersensitivity and diseases of the lungs.

**SECTION V.(B) HEALTH HAZARD DATA** (Emergency and First Aid Procedures)

**INHALATION** If rosin fume is inhaled when wire is heated to soldering temperatures, remove individual to fresh air. If breathing is difficult administer oxygen and consult a physician.

**INGESTION** Call physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

**SKIN CONTACT** For burns cool with water and obtain medical aid. For rash, remove from exposure and consult a physician.

**EYE CONTACT** For burns flush immediately with cool water and obtain medical aid. For fume irritation remove from exposure.

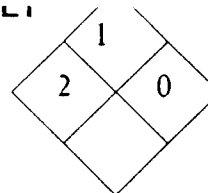
**SECTION VI. REACTIVITY DATA**

**STABILITY** CONDITIONS None  
**STABLE:** X **UNSTABLE:** TO AVOID

**INCOMPATABILITY** Oxidizing materials, strong acids.  
(Materials to Avoid)

**HAZARDOUS DECOMPOSITION PRODUCTS** Thermal decomposition may product CO, CO<sub>2</sub>, abietic acid, aliphatic aldehydes, terpenes and other acids.

**HAZARDOUS POLYMERIZATION** CONDITIONS  
**WILL OCCUR:** WILL NOT OCCUR: X **TO AVOID** None

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## Energized Rosin Core Solder

**SECTION VII. SPILL OR LEAK PROCEDURES**

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Solid at room temperature. If in molten state allow to cool and solidify and then scrape up.

**WASTE DISPOSAL** The alloy portion is reclaimable.

Must be in accordance with Federal, State and Local Laws and Regulations

**SECTION VIII. SPECIAL PROTECTION**

**RESPIRATORY** If threshold limit value is exceeded or ventilation is not adequate to remove smoke from the breathing zone, then a NIOSH/MSHA approved, cartridge type respirator should be worn.

**EYEWEAR** When soldering use face shield or eye goggles.

**CLOTHING/  
GLOVES** Not usually necessary.

**VENTILATION** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLVs.

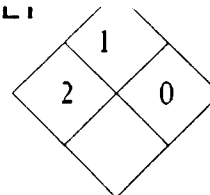
**SECTION IX. SPECIAL PRECAUTIONS**

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

No special requirements for storage. Read all container labeling. Food and drink should not be consumed or tobacco products used, nor cosmetics applied in areas where core solders may be used. Always wash hands after handling core solder and before eating, drinking or smoking.

## OTHER PRECAUTIONS:

Containers: Since empty containers may retain product residues (vapor, liquid, or solid) all labeled hazard precautions must be observed. **FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.**

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## Energized Rosin Core Solder

**SECTION X. ADDITIONAL INFORMATION****HEALTH HAZARD DATA: (continued)****CHRONIC TOXICITY:**

**LEAD:** Exposure to high levels of airborne or ingested lead may produce symptoms of anemia, insomnia, weakness, constipation, nausea and abdominal pain. Overexposure may cause damage to blood-forming, nervous, reproductive, intestinal and urinary systems. For occupational exposure requirements see 29 CFR 1910.1025 Lead Standard and its appendices.

Women of child bearing age should avoid exposure to lead and its inorganic compounds due to post-natal effects. Lead can cause potential injury to a developing fetus and possible effects of reproduction.

**TIN, SILVER, BISMUTH, ANTIMONY AND INDIUM TOXICITY:**

Overexposure to these elements is not expected.

**NOTES TO PHYSICIAN:** Lead and its inorganic compounds are neurotoxins which may produce peripheral neuropathy. For an overview of the effects of lead exposure, consult Occupational Safety and Health Administration Appendix A of Occupational Exposure to Lead (29CFR1910.1025).

----- **REGULATORY INFORMATION** -----

State of California Proposition 65:

"WARNING! This product contains LEAD known to the State of California to cause cancer, birth defects or other reproductive harm."

Superfund Amendments and Reauthorization Act (SARA) Title III (Section 313)

Components that may be present in this product at a level which could require reporting under the statute are:

Lead - Silver - Antimony

Toxic Substance Control Act (TSCA) Status:

All ingredients of this product are on the TSCA inventory.

**EMERGENCY TELEPHONE NUMBER****CHEMTREC****1-800-424-9300****DAY OR NIGHT**

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